

WHAT IS CLAIMED IS:

1 1. A telecommunications system employing packetized
2 communications for voice and data, said telecommunications
3 system comprising:

4 a code division multiple access wireless
5 telecommunications network having at least one mobile station
6 and a base transceiver station in wireless packetized
7 communications therebetween;

8 an access control server in communication with said base
9 transceiver station; and

10 packet service means, within said access control server,
11 for servicing said wireless packetized communications.

1 2. The telecommunications system according to claim 1,
2 further comprising:

3 a mobile services switching center in communication
4 with said base transceiver stations, said mobile services
5 switching center servicing circuit-switched communications
6 with said at least one mobile station within said code
7 division multiple access telecommunications network.

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1 3. The telecommunications system according to claim 2,
2 wherein said circuit-switched communications with said mobile
3 services switching center comprise voice only communications.

1 4. The telecommunications system according to claim 1,
2 wherein said packet service means within said access control
3 server services packet-switched data only communications with
4 said at least one mobile station within said code division
5 multiple access telecommunications network.

1 5. The telecommunications system according to claim
2 1, wherein said access control server is an Internet Protocol
3 (IP) entity comprising means therein for setting up and
4 maintaining at least one packet data session.

1 6. A method for providing packetized communications
2 within a telecommunications system having a Mobile Services
3 Switching Center (MSC), said method comprising the steps of:
4 transceiving a packetized communication between a
5 mobile station and a base transceiver station; and
6 processing, by an access control server within said
7 telecommunications system, said packetized communication,
8 said access control server being connected to said base
9 transceiver station, to transceive said packetized
10 communication therebetween, said packetized communication
11 bypassing said MSC.

1 7. The method according to claim 6, wherein said step
2 of transceiving further comprises the steps of:
3 transmitting, by said mobile station, said
4 packetized communication to said base transceiver station;
5 and
6 forwarding, by said base transceiver station, said
7 packetized communication to said access control server, said
8 packetized communication bypassing said MSC.

1 8. The method according to claim 6, wherein said step
2 of transceiving further comprises the steps of:

3 receiving, at said access control server, said
4 packetized communication; and

5 forwarding, by said access control server, said
6 packetized communication to said base transceiver station,
7 said packetized communication bypassing said MSC.

1 9. A method for providing packetized communications for
2 voice and data within a code division multiple access
3 network, said method comprising the steps of:

4 receiving by a base transceiver station, a code division
5 multiple access signal from a mobile station, said signal
6 including a packetized communication;

7 forwarding, by said base transceiver station, said
8 packetized communication to an access control server within
9 said code division multiple access network; and

10 accepting, by said access control server, said
11 packetized communication.

1 10. A methodology for the migration of a given
2 telecommunications system using a Mobile Services Switching
3 Center (MSC) to a packet-switched telecommunications system,
4 said methodology comprising the steps of:

5 adding an access control server to said given
6 telecommunications system;

7 providing interconnections to said access control
8 server, said interconnections connecting said access control
9 server to at least one base station, said base station being
10 in wireless communication with at least one mobile station,
11 said at least one base station having a circuit-switched
12 connection to said MSC; and

13 transceiving, between said access control server
14 and said at least one base station, a packetized
15 communication, said packetized communication bypassing said
16 MSC, whereby said interconnections for packetized
17 communications generate said packet-switched
18 telecommunications system.

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1 11. The methodology according to claim 10, wherein said
2 given telecommunications system utilizes a cdma2000
3 architecture.

Added A1
Added B1